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Pressure responsive electrically conductive elastomer mfr. - using
magnetic field to arrange conductive particles within elastomer sheet
before vulcanisation

Patent Assignee: JAPAN SYNTHETIC RUBBER CO LTD (JAPS)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 54146873	A	19791116				198001 B
JP 81019817	B	19810509				198123

Priority Applications (No Type Date): JP 7855291 A 19780510

Abstract (Basic): JP 54146873 A

Method comprises forming an insulating high molecular elastic material comprising 0.05-3% of electrically conductive particles having a dia. of 0.01-20 μ and 4-35% of particles having a dia. of 50-250 μ into a sheet form, and applying magnetic field of parallel lines of magnetic induction using a magnetic pole plate having an uneven surface before or during crosslinking to distribute the electrically conductive substance within the sheet nonuniformly.

The resistivity of the elastomer sheet can be lowered and it may be used as an electrically conductive sheet for placing between connected objects. The elastic material, pref. comprises 0.3-15 pts. particles (1) per 100 pts. particles (2) (sic). Pref. insulation high molecular elastic material is, e.g., polybutadiene, natural rubber, polyisoprene, SBR, NBR, EPDM, EPM, urethane rubber, polyester rubber, chloroprene, epichlorohydrin rubber, silicon rubber.

Title Terms: PRESSURE; RESPOND; ELECTRIC; CONDUCTING; ELASTOMER;
MANUFACTURE; MAGNETIC; FIELD; ARRANGE; CONDUCTING; PARTICLE; ELASTOMER;
SHEET; VULCANISATION

Derwent Class: A35; A85; X12

International Patent Class (Additional): B29H-007/00; H01B-001/00

File Segment: CPI; EPI